

Oxy/Welding Set Safety Testing

The background image shows a close-up of a welding process. A white protective mask is visible on the left, with bright orange and yellow sparks flying out from the welding point on the right. The sparks are captured in motion, creating a dynamic and intense scene.

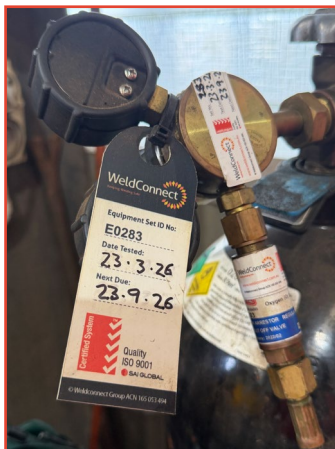
A systematic compliance management program that tests, assesses and reports on all risks associated to a company's welding and oxy/fuel equipment and environment.

We test everything on your site or workshop.

Welding Machine Safety Testing



Oxy Set Safety Testing



An End-to-End Solution!

- Your testing routine is locked in and managed by us.
- All your equipment is thoroughly tested.
- You receive a detailed report for your records.
- All reports are securely saved in our cloud.

**The result? You're safe, compliant,
and free to focus on what you do best.**

Oxy & Welding Set Safety

Onsite Testing

WeldConnect has qualified technicians who come to your site & test the following:

1. All your stationary and mobile Oxy/Fuel Gas Sets
2. All your welding equipment including Mig, Arc, tig & plasma machines

How It works

Within Australia, we comply with the following National Regulations, Code of Practice and Australian Standards:

1. CODE OF PRACTICE - WELDING PROCESS
2. NOHSC - DANGEROUS GOODS REGULATION

AUSTRALIAN STANDARDS

- AS 1674.2 - Safety in welding and allied processes - Electrical
- Welding electrical Safety, WTIA Technical note No 22
- AS 4839 - The safe use of portable & mobile oxy/fuel gas systems for welding, cutting, heating and allied processes.



Routine

In collaboration with your WeldConnect technician, an appropriate testing assessment routine will be determined for your business.

Compliance/Procedure

Your WeldConnect technician will carry out the generic oxy/fuel and welding allied processes and equipment testing procedure, which will involve an assessment of your site and all equipment.

Your Safe/Measure

Our WeldConnect assessment procedure measures the risk position of your business, guaranteeing the safety of your people and site.

Communicate/Reporting

Following this assessment, we will notify you of your business's exact safety position through an on-site walkthrough and live electronic reporting.

HOW WE TEST YOUR OXY/FUEL GAS SETS ON-SITE

Overview

All your common on-site gases are Class 2 Dangerous Goods. The most common gases we will deal with range from Argon, Oxygen, LPG & Acetylene.

The Dangerous Goods Regulations require systematic testing of all your equipment in the following manner:

Hazard → Risk → Control

Our technicians will test all your equipment, including the regulator, flashback arrestors, hoses, handpieces, and cutting & heating equipment as per Australian Standard 4839 - The Safe use of portable and mobile oxy/fuel gas systems for welding, cutting, heating, and allied processes.

Competency Levels

Management Competency

WeldConnect management must hold as a minimum competency:

- Occupational Health and Safety Diploma.
- Risk management skills.
- Certificate 4 Training and Assessing.

Consultants & Representatives Competency

All WeldConnect consultants and representatives must have as a minimum competency:

- WeldConnect 40 hour oxy/fuel gas dangerous goods and equipment Scope of Work Training/Certification.
- Training in Welding Processes Code of Practice July 2012.
- Ability to understand and identify hazards with welding structure, plant and systems of work.
- An understanding in how to complete a hazard and risk assessment.
- An understanding in hazardous chemicals, airborne contaminants and plant.
- Ability to understand the review and control measures.
- Good communication skills.
- Skills in performing manual welding allied processes.

On-site Risk Management Process

The WeldConnect on-site risk management process comprises of the below 3 elements:

- Gas oxy/fuel set hazard and risk identification and recommended controls.
- Gas oxy/fuel set inspection, testing and tagging.
- Gas dangerous goods hazard and risk identification and recommended controls.

Our consultants will assess, test, tag and comply to:

- Regulation - Storage & Handling of Workplace Dangerous Goods [NOHSC :2017(2001)].
- Australian Standards Guidance - 4839-2001 – *The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes.*

Our Systematic Testing Process

The national standard approach to risk management comprises of a 3-step process, plus recording and review, as indicated below. This systematic approach is followed during all assessments carried out by WeldConnect.

Steps	Key Elements	References
STEP 1 Identify the hazard	- Conduct a walk through assessment. - Inspect the materials and equipment that will be used during welding processes. - Identify SDS, PPE and surrounds.	CoP 2.1
STEP 2 Assess the risk	- Identify which workers are at risk. - Properties of materials and surface coatings. - Condition of welding equipment. - Condition under which welding is carried out. - Skills, competence and experience of welders. - Record results of assessment.	CoP 2.2
STEP 3 Control the risks	- Apply practicability test (Based on feasibility and cost of mitigating risk). - Eliminate hazards leading to risk where possible. - Implement risk control. - Hierarchy of controls.	CoP 2.3
Review	- Repeat Step 1 & 2 to ensure risks mitigated. - Record results of routine assessment. - Implement additional risk control measures.	CoP 2.4

Oxy/Fuel Gas Equipment Assessment, Testing & Tagging

This on-site procedure can be routinely carried out by our expert consultants monthly, quarterly or every 6 and 12 months, depending on the needs of your business.

Oxy/fuel gas equipment assessment, testing & tagging involves assessments of the following:

- Regulators.
- Flashback arrestor testing.
- Hoses.
- Handpieces/blowpipes AS 4839 section 6.6.
- Cutting attachments, mixers, brazing and cutting tips.
- Workshop environment and operators accessories.
- Cylinder trolleys/cylinder safety.

Class 2 Dangerous Goods Assessment

The class 2 dangerous goods assessment procedure involves the following:

- Storage facility.
- Manifest.
- Hazard identification & risk assessment.
- Risks/documentation.
- Information/training/supervision/education.
- Risk - visitors/contractors.
- Investigation/accident procedure.
- Emergency plan/procedure.
- Personal Protective Equipment (PPE).

HOW WE TEST ALL YOUR WELDING EQUIPMENT & SURROUNDING ENVIRONMENT

Overview

Within Australia, there is now guidance on how to keep your welding environment safe.

Starting in 2021, there is now a Welding Code of Practice that outlines how to manage risk in - Welding fumes, Radiation, electrical risk, Fire, burns, PPE, and equipment maintenance.

The code of practice also outlines to test all your equipment in the following manner Hazard → Risk → Control

Our technicians will test all your equipment, including MIG, TIG, PLASMA and Arc welding machines. The technician will test and check your Regulators, hose fittings, machine condition, fittings & all connecting leads & surrounding environment.

Our Systematic Testing Process

Steps	Key Elements
STEP 1 Identify the hazard	• Conduct a walk through assessment. • Inspect the materials and equipment that will be used during welding processes. • Identify SDS, PPE and surrounds.
STEP 2 Assess the risk	• Identify which workers are at risk. • Properties of materials and surface coatings. • Condition of welding equipment. • Condition under which welding is carried out. • Skills, competence and experience of welders. • Record results of assessment.



STEP 3 **Control the risks**

- Apply practicability test (Based on feasibility and cost of mitigating risk).
- Eliminate hazards leading to risk where possible.
- Implement risk control.
- Hierarchy of controls.

Review

- Repeat Step 1 & 2 to ensure risks mitigated.
- Record results of routine assessment.
- Implement additional risk control measures.

Our service includes

1. Your Safety team receive our on-site Oxy/Fuel Gas Set Safety Procedure, which explains our competency, the Australian standards we test to, and the exact testing procedure
2. WeldConnect Intertek SAI Global Quality Standard Certificate
3. All consultants comply with our Systematic APP. Whether we are in Brisbane, Perth, Melbourne, Adelaide, or Sydney, if we identify a hazard, your sites receive the exact recommended control
4. You receive an emailed Report
5. All reports are stored in the WeldConnect iCloud.
6. Your next routine service is booked in our calendar, and we will contact you when it's due.
7. If hazards are identified, we will fix and repair your equipment with your management consent

On-site Risk Management Process

The WeldConnect on-site risk management process comprises of the below 3 elements:

- Welding set hazard and risk identification, and recommended controls.
- Welding set inspection, testing and tagging.
- Welding environment hazard and risk identification, and recommended controls.

Our consultants will assess, test, tag and comply to the following legislation:

- Code of Practice: Welding Processes
- Australian Standard Guidance - 1674.2 *Safety in Welding and Allied Processes - Electrical*

Our Systematic Approach

The national standard approach to risk management comprises of a 3-step process, plus recording and review, as indicated below. This systematic approach is followed during all assessments carried out by WeldConnect.

Steps	Key Elements	References
STEP 1 Identify the hazard	• Identify all of the dangerous goods and their hazards. • Identify the hazards arising from the storage and handling processes. • Identify any neighbouring or external hazards.	NS 13 CoP 13
STEP 2 Assess the risk	• Assess the severity of the incident outcome arising from each hazard (S). • Assess the likelihood of this incident taking place (L). • Determine initial prioritisation of risk (L x S). • Record results of assessment.	NS 14 CoP 14
STEP 3 Control the risks	• Apply practicability test (Based on feasibility and cost of mitigating risk). • Eliminate hazards leading to risk, where possible. • Implement risk control.	CoP 5.1 NS 15 CoP 15

Review

- Repeat Step 1 & 2 to ensure risks mitigated. NS 13-15
- Record results of routine assessment. CoP 13-15
- Implement additional risk control measures.

Welding Allied Processes and Welding Equipment Assessment, Oxy/Fuel Gas Set Safety Testing Routine

This on-site procedure can be routinely carried out by our expert consultants monthly, quarterly or every 6 and 12 months, depending on the needs of your business.

The Welding equipment hazard and risk assessment, testing and tagging procedure includes all welding machines – mig, tig, arc, plasma and generator welders. These assessments will be carried out on the following equipment:

- Welding machine power source.
- Power source - compliant testing and tagging.
- All welding machine inspection/assessments.
- The environment the welding machine is working in.
- Welding machines connector, leads and holder clamp inspection.
- Electrode holder, leads and connectors.
- Mig, tig, plasma holders, leads and connections.
- Onnection/terminals.
- Earth clamp, leads and connections.
- Return cable leads.
- Terminals connections.
- Argon/cylinder regulators and leak test.
- Maintenance and equipment.

Welding Environment Assessment

The following Welding environment assessments will be undertaken:

- Airbourne contaminants - Guidance to Welding Fume Protection Assessments.
- Radiation - Guidance to Protect People from UV and Infra-Red Radiation.
- Fire and explosion - Guidance to Protect Against Fire.
- General welding safety - People's Safety and Surrounding Environment.
- Maintenance of equipment.

QUALITY MANAGEMENT SYSTEM

Both our Oxy & Welding Set Safety Testing procedures are thoroughly audited annually.

OUR TESTING PROCEDURES -

1. Oxy/Fuel Gas Process & Equipment Hazard & Risk Assessment Procedure
2. Welding Allied Process & Equipment Hazard & Risk Assessment Procedure

We are audited annually by Intertek SAI Global.

This assists your company if you are audited, and if there is an accident, our procedures explain exactly what equipment was tested and to what Australian Standards



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

WeldConnect Group Pty Ltd

Main Site: 5/45 Canberra Street, Hemmant, Queensland, 4174, Australia
has been registered by INTERTEK SAI Global as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Consulting and provision of hazard and risk assessments on welding and oxy/fuel Gas Dangerous Goods equipment and environment, including the provision of welding consumables and safety supplies.

Certificate Number:
QMS41304

Initial Certification Date:
18 May 2016

Date of Certification Decision:
18 March 2025

Issuing Date:
19 March 2025

Valid Until:
17 May 2028



Rathin Grover

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Locations

WeldConnect technicians cover the majority of Australia, including Brisbane, Adelaide, Perth, Sydney and Melbourne.

We also cover regional areas. This needs to be organised with your Supervisors & Team to book your Oxy/Welding Set Safety Testing.

admin@weldconnect.com.au

**WeldConnect Coverage
is Australia Wide**

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